	Application No.	Applicant(a)
	Application No.	Applicant(s)
Notice of Allowability	10/710,286	CHINTHAKINDI ET AL.
Notice of Anowability	Examiner	Art Unit
	Shouxiang Hu	2811
The MAILING DATE of this communication app All.claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-88 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT I of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED in 5) or other appropriate commu RIGHTS. This application is s	this application. If not included inication will be mailed in due course. THIS
1. This communication is responsive to <u>4/18/2007</u> .		
2. The allowed claim(s) is/are <u>1-7 and 9-16</u> .		
 3. Acknowledgment is made of a claim for foreign priority of a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	ve been received. ve been received in Application	n No
Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	" of this communication to file MENT of this application.	a reply complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be subinformal patent application (PTO-152) which gives	mitted. Note the attached EXA ves reason(s) why the oath or	MINER'S AMENDMENT or NOTICE OF declaration is deficient.
 5. CORRECTED DRAWINGS (as "replacement sheets") musical including changes required by the Notice of Draftspent or 2) to Paper No./Mail Date	rson's Patent Drawing Review r's Amendment / Comment or 1.84(c)) should be written on the the header according to 37 CFI osit of BIOLOGICAL MATE	in the Office action of se drawings in the front (not the back) of R 1.121(d). ERIAL must be submitted. Note the
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ⊠ Interview Su Paper No./I 7. ⊠ Examiner's /	formal Patent Application Immary (PTO-413), Mail Date Amendment/Comment Statement of Reasons for Allowance
		SHOUXIANG HU PRIMARY EXAMINER

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EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in telephone interviews with Joseph P. Abate (RN: 30,238) and Henri Schnurmann (RN 35,791) on April 24, 2007.

The application has been amended as follows:

IN THE CLAIMS

In claim 1, the third line from the bottom, change "dielectric material" to: -- dielectric layer--.

In claim 2, line 5, change "material surrounding" to: --layer adjacent to--.

In claim 4, line 3, between "depositing" and "elastomeric", insert: --said--.

In claim 4, line 3, change "dielectric" to: --dielectric layer---.

In claim 4, line 5, change "conductive" to: --said conductive--.

In claim 4, line 5, change "dielectric" to: --dielectric layer--.

In claim 4, line 9, change "cavity with" to: --cavity in said fourth dielectric layer with--.

In claim 6, line 3, change "dielectric" to: --dielectric layer--.

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In claim 13, line 2, change "dielectric surrounding said electrodes" to: --second dielectric layer--

In claim 15, line 5, change "one cavity" to: --one cavity in said fourth dielectric layer--.

In claim 15, line 7, change "insulating" to: --fourth dielectric--.

In claim 16, line 2, change "layer is made of a liner material" to: --lines comprise at least one material--.

Allowable Subject Matter

Claims 1-7 and 9-16 are allowed.

Reasons for Allowance

The following is an examiner's statement of reasons for allowance: prior art does not teach or render obvious a method of fabricating a micro-electromechanical system (MEMS) variable capacitor as defined in the above allowed claims, comprising particularly the steps of: depositing the first, second and third dielectric layers on a substrate; forming cavities and/or electrodes in these layers, especially including etching at least one cavity in the second dielectric layer and filling and planarizing it with a sacrificial material; forming a plurality metal lines on top of the third dielectric layer, with the metal lines being interconnected therebetween and to the ground plane electrode through conductive vias; embedding elastomeric material between the

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conductive vias; and, selectively removing portions of the third dielectric layer and etching away the sacrificial material.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shouxiang Hu whose telephone number is 571-272-1654. The examiner can normally be reached on Monday through Friday, 8:30 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard T. Elms can be reached on 571-272-1869. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

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USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

SH April 26, 2007

> SHOUXIANG HU PRIMARY EXAMINED